



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Neil J. Goldfine, Vladimir A. Zilberstein, Darrell E. Schlicker David C. Grundy, Ian C. Shay and Andrew P. Washabaugh

Application No.: 10/788,526 Group Art Unit: 2862

Filed: February 27, 2004 Examiner: Not assigned

Confirmation No.: 6893

Title: HIGH RESOLUTION INDUCTIVE SENSOR ARRAYS FOR MATERIAL AND DEFECT CHARACTERIZATION OF WELDS

CERTIFICATE OF MAILING OR TRANSMISSION	
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Date	Signature
<i>Ellen T. Spear</i>	
Typed or printed name of person signing certificate	

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
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Sir:

This Information Disclosure Statement is submitted:

- ☐ under 37 CFR 1.129(a), or
(First/Second submission after Final Rejection)
- ☒ under 37 CFR 1.97(b), or
(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).
- ☐ under 37 CFR 1.97(c) together with either:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, or
- ☐ a \$180.00 fee under 37 CFR 1.17(p), or
(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, and
- ☐ a \$180.00 fee under 37 CFR 1.17(p), or
(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)
- ☐ under 37 CFR 1.97(i):
Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.
(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.
- ☒ Enclosed herewith is form PTO-1449:
 - ☒ Copies of the cited references are enclosed.
 - ☒ Copies of issued U.S. patents and published U.S. applications are not required and are not being provided.
 - ☐ Copies of the cited references are enclosed except those entered in prior application, U.S. Application No. [], to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]
 - ☐ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.
 - ☐ The "concise explanation" requirement (non-English references) for reference(s) [] under 37 CFR 1.98(a)(3) is satisfied by:
 - ☐ the explanation provided on the attached sheet.
 - ☐ the explanation provided in the Specification.
 - ☐ submission of the enclosed International Search Report.
 - ☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
 - ☐ the enclosed English language abstract.

☒ Applicant requests that the following non-published pending applications be considered:

Examiner's
Initials

U.S. Patent Application No. 09/666,524, by Neil J. Goldfine, Darrell E. Schlicker, David C. Clark, Karen E. Walrath, Volker Weiss, William M. Chepolis, Andrew P. Washabaugh, Vladimir A. Zilberstein, Vladimir Tsukernik, filed September 20, 2000, Docket No.: 1884.1020-006.

U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []

U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []

Examiner

Date

- ☐ A copy of each above-cited application, including the current claims, is enclosed, except any application filed on or after June 30, 2003, which has been scanned into the PTO's Image File Wrapper (IFW) system and is available to the examiner.
- ☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

- ☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.
- ☐ Please charge Deposit Account 08-0380 in the amount of \$[]. A copy of this Statement is enclosed.
- ☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By

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Dated: 3/22/05

PTO-1449 REPRODUCED

**INFORMATION DISCLOSURE STATEMENT
IN AN APPLICATION**

January 7, 2005

(Use several sheets if necessary)

 ATTORNEY DOCKET NO.
1884.2005-003

 APPLICATION NO.
10/788,526

 FIRST NAMED INVENTOR
Neil J. Goldfine

 FILING DATE
February 27, 2004

 EXAMINER
Not assigned

 CONFIRMATION NO.
6893

 GROUP
2862

MAR 24 2005

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / MM-DD-YYYY	NAME OF PATENTEE OF CITED DOCUMENT
	AA	4,441,010	04/03/1984	Cornu et al.
	AB	5,015,951	05/14/1991	Melcher
	AC	5,047,719	09/10/1991	Johnson et al.
	AD	5,146,163	09/08/1992	Nawa
	AE	5,182,513	01/26/1993	Young et al.
	AF	5,262,722	11/16/1993	Hedengren et al.
	AG	5,389,876	02/14/1995	Hedengren et al.
	AH	5,453,689	09/26/1995	Goldfine et al.
	AI	5,463,201	10/31/1995	Hedengren et al.
	AJ	5,592,078	01/07/1997	Giragosian et al.
	AK	5,793,206	08/11/1998	Goldfine et al.
	AA2	RE.36,986	12/12/2000	Melcher
	AB2	US 6,168,066 B1	01/02/2001	Arbegast
	AC2	US 6,377,039 B1	04/23/2002	Goldfine et al.
	AD2	20020158626	10/31/2002	Shay et al.
	AE2			
	AF2			
	AG2			
	AH2			
	AI2			
	AJ2			
	AK2			
	AA3			
	AB3			
	AC3			

EXAMINER

DATE CONSIDERED

PTO-1449 REPRODUCED INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION January 7, 2005 (Use several sheets if necessary)	ATTORNEY DOCKET NO. 1884.2005-003		APPLICATION NO. 10/788,526	
	FIRST NAMED INVENTOR Neil J. Goldfine		FILING DATE February 27, 2004	
	EXAMINER Not assigned		CONFIRMATION NO. 6893	GROUP 2862

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
AR	Arbegast, W.J., and Hartley, P.J. (1998), "Friction Stir Weld Technology Development at Lockheed Martin Michoud Space Systems - An Overview", 5th International EWI Conference on Trends in Welding Research, 1 - 5 June, 1998, Pine Mountain, GA.	
AS	Ditzel, P., and Lippold, J.C. (1997), "Microstructure Evolution During Friction Stir Welding of Aluminum Alloy 6061-T6", Edison Welding Institute, Summary Report SR9709.	
AT	Goldfine, N., Schlicker, D., Sheiretov, Y., Washabaugh, A., Zilberstein, V., Lovett, T., "Conformable Eddy-Current Sensors And Arrays For Fleetwide Gas Turbine Component Quality Assessment," ASME Turbo Expo Land, Sea, & Air 2001, 4-7 June, 2001, New Orleans, LA.	
AU	Mahoney, M.W., Rhodes, C.G., Flintoff, J.G., Spurling, R.A., and Bingel, W.H. (1998), "Properties of Friction-Stir-Welded 7075 T651 Aluminum", Metallurgical and Materials Transactions A, vol. 29A, July 1998, pp. 1955 - 1964.	
AV	Nondestructive Testing Handbook, 2nd Edition, Volume 4: Electromagnetic Testing, American Society for Nondestructive Testing, 1986, pp. 378-385, 388-399, 405-414, 420 and 421.	
AW	Rummel, W. and W. Arbegast, Proc. ASNT Spring Conf., 24-27 March, 1980, Philadelphia, PA, pp.201-208.	
AX	Presentation Slides titled "Autogeneous Friction Stir Weld LOP Defect Detection and Sizing Using Directional Conductivity Measurements with MWM Eddy-Current Sensor," Aeromat 2000, Seattle, WA.	
AY	Presentation Slides titled "Friction Stir Weld LOP Defect Detection, Using New High Resolution MWM-Arrays and MWM Eddy-Current Sensor," Aeromat 2001, Long Beach, CA.	
AZ	NASA SBIR proposal titled "High Resolution Inductive Imaging of Critical Metal Joints and Components," submitted June 5, 2001.	
AR2		
AS2		
AT2		
AU2		

EXAMINER	DATE CONSIDERED
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